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Experimental Data

Constant-Volume Diesel Combustion

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Related Internet Sites

References

Tutorial: Diesel Spray Visualization

For further information, contact [Lyle Pickett](#), 925.294.2166
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Experimental Data Search

Search All Data

Experimental conditions such as ambient temperature, ambient density, injection pressure, nozzle size, fuel, etc. were varied for a given experimental diagnostic. As there are many different combinations of variables, a search utility was developed to quickly display the data of interest. As you select the experimental condition or diagnostic, the search utility will dynamically show what data is available for those selections.

[Open Data Search Utility](#)

Data description [Definition of data columns](#)

Download all data [Download .csv text-delimited file](#)

Recent Changes to Database

5-15-2007. Database and [.csv file](#) updated.

5-8-2007. Ambient pressure and gas compressibility factor included.

2-26-2007. Data re-processed so that start of injection is defined as the first mass leaving the nozzle, rather than when the spray crosses the laser at 7 mm. This change shifts time by approximately 0.050-0.100 ms.

2-26-2007. Estimates for injection duration and mass injection included in database.

2-26-2007. Bulk temperature and density included. See [ambient conditions](#).

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